Total	No.	o. of Questions : 8] SEA	AT No.:	
P27	1		[Total	No. of Pages : 2
		[6003]-349		
		T.E. (Computer Engineering) (Semest	ter - I)	
		COMPUTER NETWORKS AND SEC	URITY	<i>l</i>
		(310244) (2019 Pattern)		
Time	: 21	P½ Hours]	[M	ax. Marks: 70
Instr	ucti	tions to the candidates:		
	1)	Neat diagrams must be drawn whenever necessary.		
	2)	Figures to the right side indicate full marks.	90	~ <u>\</u>
	3)			
	4)	Answer Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.6	8.	•
Q1)	a)	Differentiate between Circuit Switching and Packe	t Switch	ning. [6]
	b)	Give short note on RIP.		[6]
	c)	192.168.5.71 /26 for given address find out the		[6]
		i) subnet mask?		
		ii) what is first ip address for given series?		
		iii) what is last ip address for given series?		
		OR		
Q 2)	a)	Draw and explain Header format of IPV6.		[6]
	b)	Give short note on BGP		[6]
	c)	List and explain functions of Network Layer.	9	[6]
,			300	
Q3)	a)	What is socket? What are different types of so	cket? E	Explain socket
)	functions used in connection less services with dia	, \ \	[6]
	b)	Explain TCP congestion control in transport layer	9	[6]
	c)	What is Quality of Service? Explain any two metho	ds to im	prove QoS?[6]

OR

Q4) a)	Explain RTP protocol in detail.	[6]	
b)	List and explain transport layer services.	[6]	
c)	06 32 00 0D 001C E2 17 using this UDP hexadecimal dump find of	out in	
	decimal numbers	[6]	
	i) Source port no.		
	ii) Destination port no.		
	iii) Total length of user datagram.		
	20°		
<i>Q5</i>) a)	What is HTTP? Explain HTTP request and reply messages.	[9]	
b)	Write short notes on SMTP and MIME.	[8]	
U)	%·	[O]	
7	OR		
Q6) a)	What is DHCP? Explain DHCP working with client state diagram.	[9]	
b)	Write short notes on POP3 and Webmail.	[8]	
Q7) a)	7) a) Differentiate between Symmetric and Asymmetric Key Cryptography.[6]		
b)	Explain model for network security.	[6]	
c)	Give short note on Security Policy and mechanisms.	[5]	
	OR OR		
Q8) a)	Explain Types of Network Attacks.	[6]	
20) 4)	Explain IDCas in datail	[0]	
(CD)	Explain IPSec in detail.	[6]	
(C)	Give short note on S/MIME.	[5]	
	Give short note on Security Policy and mechanisms. OR Explain Types of Network Attacks. Explain IPSec in detail. Give short note on S/MIME.		
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[6003]-3			